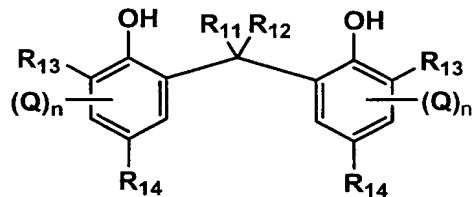


What is claimed is:

1. A silver salt photothermographic material comprising on a support a light-sensitive layer comprising a light-sensitive emulsion containing light-insensitive organic silver salt grains and light-sensitive silver halide grains, a reducing agent for silver ions and a binder, wherein the reducing agent for silver ions is a compound represented by the following formula (1) and the light-sensitive layer further comprises a hindered phenol which is a compound represented by the following formula (2):

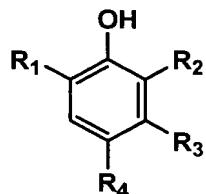
formula (1)



wherein R_{11} and R_{12} are each a hydrogen atom, a 3- to 10-membered non-aromatic ring group or a 5- or 6-membered aromatic ring group, provided that R_{11} and R_{12} are not hydrogen atoms at the same time; R_{13} and R_{14} are each a hydrogen atom, an alkyl group, a cycloalkyl group, an alkenyl group, a cycloalkenyl group, an aryl group or a heterocyclic

group; Q is a group capable of being substituted on a benzene ring; n is 0, 1 or 2;

formula (2)



wherein R₁ is an alkyl group or a cycloalkyl group; R₂ is a hydrogen atom, an alkyl group, a cycloalkyl group, or an acylamino group; R₃ is a hydrogen atom, an alkyl group or a cycloalkyl group; R₄ is a group capable of being substituted on a benzene ring.

2. The photothermographic material of claim 1, wherein in formula (1), the 3- to 10-membered non-aromatic ring group represented by R₁₁ and R₁₂ is a hydrocarbon ring group.

3. The photothermographic material of claim 1, wherein in formula (1), the 5- or 6-membered aromatic ring group represented by R₁₁ and R₁₂ is an aromatic hydrocarbon group or a heterocyclic group.

4. The photothermographic material of claim 1, wherein in formula (1), one of R_{11} and R_{12} is a hydrogen atom and the other one is a 3- to 10-membered non-aromatic ring group or a 5- or 6-membered aromatic ring group.

5. The photothermographic material of claim 4, wherein said the other one is a 5- or 6-membered non-aromatic ring group.

6. The photothermographic material of claim 4, wherein said the other one is a 5-membered aromatic heterocyclic group.

7. The photothermographic material of claim 1, wherein in formula (1), R_{13} is a tertiary alkyl group.

8. The photothermographic material of claim 1, wherein in formula (1), R_{14} is a primary alkyl group.

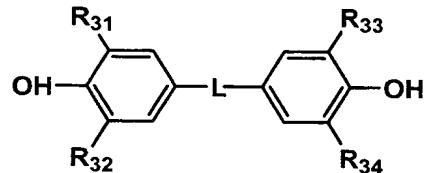
9. The photothermographic material of claim 1, wherein in formula (1), one of R_{11} and R_{12} is a hydrogen atom and the other one is a 5-membered aromatic heterocyclic group, R_{13} is

t-butyl or 1-methylcyclohexyl, and R₁₄ is methyl or 2-hydroxyethyl.

10. The photothermographic material of claim 1, wherein in formula (2), R₁ is a tertiary alkyl group.

11. The photothermographic material of claim 1, wherein the hindered phenol represented by formula (2) is a compound represented by formula (3):

formula (3)



wherein R₃₁, R₃₂, R₃₃ and R₃₄ are each an alkyl or cycloalkyl group; L is -S- or -CHR₃₅, in which R₃₅ is a hydrogen atom or an alkyl or cycloalkyl group.

12. The photothermographic material of claim 11, wherein at least one of R₃₁, R₃₂, R₃₃ and R₃₄ is a group selected from the group consisting of iso-propyl, iso-nonyl, t-butyl, t-amyl, t-octyl, cyclohexyl, 1-methyl-cyclohexyl and adamantly.

13. The photothermographic material of claim 11,
wherein R_{35} is a hydrogen atom.

14. The photothermographic material of claim 11,
wherein a molar ratio of the compound represented by formula
(1) to the compound represented by formula (2) is 0.001 to
0.2.